

What is claimed is:

1. A color printer having at least one recording head and a feed roller pair, said recording head recording at least a first, a second, and a third primary color image within a recording area of recording material by frame sequential printing, said feed roller pair alternately conveying said recording material in a first direction and a second direction, said color printer comprising:
  - 10 a detector for detecting a conveyance amount of said recording material by said feed roller pair;
  - a controller for performing a print sequence and a return sequence for said respective primary color images, and in said print sequence, said controller making said feed roller pair  
15 convey said recording material in said first direction, and when the conveyance amount from the start of conveyance of said recording material in said first direction reaches a first target conveyance amount, said controller driving said recording head to record one of said first to third primary color  
20 images within said recording area of said recording material, and in said return sequence, said controller making said feed roller pair convey said recording material in said second direction, and when the conveyance amount from the start of conveyance of said recording material in said second direction  
25 reaches a second target conveyance amount, said controller stopping its conveyance; and
  - correction means for correcting said first target conveyance amount or said second target conveyance amount

related to recording said second or said third primary color image, said correction means obtaining the correction amount of conveyance based on conveyance speed of said recording material in said return sequence.

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2. A color printer as claimed in claim 1, wherein said first to third primary color images are a yellow, a magenta, and a cyan color images.

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3. A color printer as claimed in claim 2, wherein said recording head is a thermal head, said recording material has a first, a second, and a third thermal coloring layers, said first thermal coloring layer is positioned uppermost, and develops yellow with said yellow image, said second thermal coloring layer is positioned second uppermost, and develops magenta with said magenta image, said third thermal coloring layer is positioned lowermost, and develops cyan with said cyan image, and said first and said second thermal coloring layers are fixed by an electromagnetic radiation having a prescribed wavelength range.

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4. A color printer as claimed in claim 3, further comprising:  
a fixing device for emitting irradiance having said particular wavelength range to said first and said second thermal coloring layers in said return sequence;

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an irradiance measuring device for measuring irradiance of said electromagnetic radiation;

a memory for storing table data representing a relation of

said conveyance speed and a correction amount per unit conveyance length; and

said controller controlling said conveyance speed in said return sequence in accordance with said irradiance, wherein  
5 said correction means refers to said memory to correct said correction amount of conveyance.

5. A color printer as claimed in claim 4, wherein said controller maintains said conveyance speed in said print  
10 sequence, and in said return sequence, sets said conveyance speed at a successively adjusted level so as to keep said electromagnetic radiation at a regular amount and accumulates said correction amount for plural levels of said conveyance speed to obtain said correction amount of conveyance.

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6. A color printing method for recording a first, a second, and a third primary color images within a printing area of recording material by frame sequential printing, said color printing method comprising steps of:

20 conveying said recording material in a first direction;  
starting printing within said printing area of said recording material when the conveyance amount from the start of conveyance reaches a first target conveyance amount during the conveyance of said recording material in said first  
25 direction;

conveying said recording material in a second direction after completing recording of one of said first to said third primary color images within said recording area of said

recording material;

stopping conveyance of said recording material when the conveyance amount from the start of conveyance reaches a second target conveyance amount during the conveyance of said recording material in said second direction; and

obtaining the correction amount of conveyance based on the conveyance speed during the conveyance of said recording material in said second direction to correct said first or said second target conveyance amount so as to record said second or said third primary color image.

7. A color printing method as claimed in claim 6, wherein said first to said third primary color images are a yellow, a magenta, and a cyan images, and said recording material has a yellow, a magenta, and a cyan thermal coloring layers, said yellow thermal coloring layer is positioned uppermost, and develops yellow when small thermal energy is applied, said magenta thermal coloring layer is positioned second uppermost, and develops magenta when middle thermal energy is applied, the cyan thermal coloring layer is positioned lowermost, and develops cyan when large thermal energy is applied, and coloring ability of said yellow and said magenta thermal coloring layers is destroyed by electromagnetic radiation having a prescribed wavelength range.

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8. A color printing method as claimed in claim 7, wherein said conveyance speed is maintained while said recording material is conveyed in said first direction, and said

conveyance speed is set at a successively adjusted level while  
said recording material is conveyed in said second direction  
so as to regulate the amount of electromagnetic radiation, and  
the correction amount to plural levels of conveyance speed is  
5 accumulated to obtain the correction amount of conveyance.

9. A color printer having a recording head, said recording  
head printing at least a first, a second and a third primary  
color images within a printing area of recording material by  
10 frame sequential printing, said color printer comprising:

a feeder for conveying said recording material;

a detector for detecting the conveyance amount of said  
recording material by said feeder;

a controller for starting printing within said printing area  
15 of said recording material when the conveyance amount of said  
recording material reaches a target conveyance amount; and

correction means for correcting said target conveyance  
amount related to printing said first or said second primary  
color image, said correction means obtaining the correction  
20 amount of conveyance to correct said target conveyance amount  
based on a fluctuation of conveyance speed of said recording  
material by said feeder.

10. A color printer having at least one recording head and  
25 a feed roller pair, said recording head recording at least a  
first and a second color images within a recording area of  
recording material by frame sequential printing, said feed  
roller pair alternately conveying said recording material in

a first direction and a second direction, said color printer comprising:

a detector for detecting a conveyance amount of said recording material by said feed roller pair;

5 a controller for performing a print sequence and a return sequence for said respective color images, and in said print sequence, said controller making said feed roller pair convey said recording material in said first direction, and when the conveyance amount from the start of conveyance of said recording

10 material in said first direction reaches a first target conveyance amount, said controller driving said recording head to record one of said first and said second color images within said recording area of said recording material, and in said return sequence, said controller making said feed roller pair

15 convey said recording material in said second direction, and when the conveyance amount from the start of conveyance of said recording material in said second direction reaches a second target conveyance amount, said controller stopping its conveyance; and

20 correction means for correcting said first target conveyance amount or said second target conveyance amount related to recording said second color image, said correction means obtaining the correction amount of conveyance based on conveyance speed of said recording material in said return

25 sequence.